BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

WORK SLIP

NAME OF WORK:- Modified Estimate For Construction of Samudaya Bhavan and other Civil works at Shivamandira Road in Ward No 02 of Yelahanka sub division

Estimated Cost RS:-75.00 Lakh,s

Agency:-Sri.Shankarappa T K (MESPC INFRA PROJECTS PRIVATE LIMITED)

Approved Tender Amount RS:- 68,80,144.00 (Excluding GST 12%)

Tender Premium:- 4.85% Above

M-Shield Ele S.No.s	Tender Item S.No.s	Description of Work	Unit	Qty as per Sanctioned Estimate			Qty as per Tender			Total Qty Executed	Qty as per Actuals upto 125%			Qty as per Actuals above 125%			Total Amount	Excess	Savings	Remarks
				Qty	Rates	Amount	Qty	Rates	Amount		Qty	Rates	Amount	Qty	Rates	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	2	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead= (I No-19.14,P No-143)	cum	150.11	56.26	8445.19	150.11	58.99	8854.99	342.39	187.64	58.99	11069.00	154.75	45.57	7052.00	18121.00	9266.01		Item operated
3	3	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)	sqm	1501.10	6.36	9547.00	1501.10	6.67	10012.34	848.00	848.00	6.67	5656.16				5656.16		4356.18	Item operated
4	1	KSRB 4-12 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm nom down size graded granite metal coarse aggregates @0.89cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1, 4.2 **(P.No.133,I No.4.2 of PW,P&IWTD SR 2018-19)**	Cum	225.17	4061.29	914480.67	225.17	4258.26	958832.40	127.20	127.20	4258.26	541650.67				541650.67		417181.73	Item operated
5	5	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC course aggregate @ 0.69cum fine aggregate @ 0.46cum,course and fine aggregate confirming to IS:383-2016,with superplastisiser @ 3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 microns thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargesof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1	cum	225.17	5634.30	1268675.33	225.17	5907.56	1330205.29	127.20	127.20	5907.56	751441.63				751441.63		578763.65	Item operated

9	6	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2.3.5 Pg No 6.Item No 2.4	cum	177.47	484.92	86058.75	177.47	508.44	90232.85	189.73	189.73	508.44	96467.00				96467.00	6234.15		Item operated
10	7	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size. with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7. Item No 2.15	cum	8.46	2623.32	22193.29	8.46	2750.55	23269.65	49.90	10.58	2750.55	29087.00	39.33	2750.55	108177.00	137264.00	113994.35		Item operated
11	8	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3	cum	26.10	5510.16	143815.18	26.10	5777.40	150790.14	48.49	32.63	5777.40	188488.00	15.86	6200.10	98347.00	286835.00	136044.86		Item operated
12	10	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerdressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Pg No 25 item No 5.6	cum	35.78	4963.68	177603.47	35.78	5204.42	186214.15	50.67	44.73	5204.42	232768.00	5.95	5204.42	30940.00	263708.00	77493.85		Item operated
13	9	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.9/cum and fine aggregtes @ 0.43cum, with superplamiser @ 3lts confirming to IS9103-1999 Reaffirmed-2005, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and sills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.13, I.No. 4.5 of PWD SR 2018-19)	cum	31.37	5754.24	180510.51	31.37	6033.32	189265.25	30.42	30.42	6033.32	183537.52				183537.52		5727.73	Item operated
14	11	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9, Pg No 7. Item No 2.10	cum	60.61	217.08	13157.22	60.61	227.61	13795.44	81.37	81.37	227.61	18520.00				18520.00	4724.56		Item operated
15	12	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge Pg No 136.Item No17.4	cum	116.86	67.09	7840.14	116.86	70.34	8219.93	143.01	143.01	70.34	10059.56				10059.56	1839.63		Item operated
17	13	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item No 4.28	sqm	82.72	278.64	23049.10	82.72	292.15	24166.65	72.36	72.36	292.15	21139.97				21139.97		3026.67	Item operated

18	14	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2. Pg No 16, Item No 4.31	sqm	87.84	386.64	33962.46	87.84	405.39	35609.46	65.07	65.07	405.39	26378.73				26378.73		9230.73	Item operated
19	15	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2. Pg No 16. Item No 4.32	sqm	111.17	492.48	54749.00	111.17	516.37	57404.85	133.54	133.54	516.37	68953.00				68953.00	11548.15		Item operated
20	16	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of forms work for suspended floors, landings, balconies and liken, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16 item no 4.29.2	sqm	172.17	432.00	74377.44	172.17	452.95	77984.40	209.07	209.07	452.95	94695.99				94695.99	16711.59		Item operated
21	17	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.2. Pg No 17.Item No 4.35	sqm	12.04	815.40	9817.42	12.04	854.95	10293.60	15.27	15.05	854.95	12867.00	0.22	854.95	188.00	13055.00	2761.40		Item operated
22	18	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2. Pg No 17. Item No 4.34	sqm	84.76	315.36	26729.91	84.76	330.65	28025.89	97.18	97.18	330.65	32132.57				32132.57	4106.67		Item operated
23	19	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2. Pg No 17. Item No 4.38	sqm	22.25	561.60	12495.60	22.25	588.84	13101.69	15.68	15.68	588.84	9233.01				9233.01		3868.68	Item operated
24	20	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 Pg No 17.Item No 4.37	sqm	11.76	348.84	4102.36	11.76	365.76	4301.34	10.40	10.40	365.76	3802.08				3802.08		499.26	Item operated
25	21	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal course aggregates @ 0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reaffirmed-2004 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specificaitons. Specification No. KBS 4.1. 4.6, Pg No. 14, Item No. 4.10	cum	56.85	6276.96	356845.18	56.85	6581.39	374152.02	58.16	58.16	6581.39	382801.20				382801.20	8649.18		Item operated

26	22	KSRB 4.2.8 Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastiniser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12	cum	11.82	6528.60	77168.05	11.82	6845.24	80910.74	41.82	14.78	6845.24	101138.00	27.05	7643.67	206730.00	307868.00	226957.26		Item operated
27	23	KSRB 4.2.8 Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastiniser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12																		
		Head Room	Cum	1.44	6593.40	9494.50	1.44	6913.18	9954.98	1.34	1.34	6913.18	9291.31				9291.31		663.67	Item operated
28	24	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Pg No.19 Item No.4.49.2																		
		Head Room	cum	38.54	5936.76	228802.73	38.54	6224.69	239899.55	3.54	3.54	6224.69	22054.08				22054.08		217845.48	Item operated
29	25	KSRB 4.2.11 Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastiniser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms, average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery finishing, curing, complete as per specifications. Spcerification No. KBS 4.1, 4.6 Pg No.15 Item no 4.20	sqm	9.36	535.68	5013.96	9.36	561.66	5257.14	9.45	9.45	561.66	5307.69				5307.69			Item operated
30	26	KSRB 4.2.11 Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastiniser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms, average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 Pg No.15 Item no.4.20																		
		Head Room	sqm	0.72	546.48	393.47	0.72	572.98	412.55	0.95	0.95	572.96	541.45				541.45	128.90		Item operated

31	27	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Pg No.15 Item No.4.46.2	Tonne	11.67	84247.56	983169.03	11.67	88333.57	1030852.76	11.82	11.82	88333.57	1043771.19				1043771.19	12918.43		Item operated
32	28	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Pg No.15 Item No.4.46.2																		
		Head Room	Tonne	0.60	85095.40	51033.24	0.60	89180.59	53508.35	0.56	0.56	89180.59	50047.70				50047.70		3460.65	Item operated
33	29	KSRB 5-14.1: Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.4, Pg No. 27 Item No. 5.27.1	sqm	108.28	984.96	106651.47	108.28	1032.73	111824.60	104.95	104.95	1032.73	108385.00				108385.00		3439.00	Item operated
35	32	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116,Item No.15.16	sqm	176.64	281.88	49791.28	176.64	295.55	52205.95	507.18	220.80	295.55	65257.44	286.38	295.55	84640.00	149897.44	97691.49		Item operated
36	33	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116,Item No.15.16																		
		Head Room	sqm	37.92	294.84	11180.33	37.92	309.14	11722.59	82.98	47.40	309.14	14653.24	35.58	309.14	10999.00	25652.24	13929.65		Item operated
37	34	KSRB 15.3.2 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering. Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 115 Item No.15.10	sqm	182.44	220.32	40195.38	182.44	231.01	42145.46	179.40	179.40	231.01	41443.19				41443.19		702.27	Item operated
38	35	KSRB 15.3.2 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering. Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 115 Item No.15.10																		
		Head Room	sqm	39.26	226.89	8904.17	39.26	237.80	9336.03	40.89	40.89	237.80	9723.64				9723.64	387.61		Item operated
39	36	KSRB15-3.14 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering. including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No.116, Item No15.22	sqm	219.40	243.00	53314.20	219.40	254.79	55900.93	219.73	219.73	254.79	55985.01				55985.01	84.08		Item operated

40	37	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll inateerial cost of labour and scaffolding etc .complete as per specification. Pg No.128 Item No.15.106	sqm	441.10	84.24	37155.26	441.10	88.33	38962.36	412.45	412.45	88.33	36431.71				36431.71		2530.65	Item operated
41	38	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer PgNo. 119. I.No. 15.51.2	sqm	221.70	97.20	21549.24	221.70	101.91	22593.45	201.69	201.69	101.91	20554.23				20554.23		2039.22	Item operated
42	39	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no117 item no 15.49.1 KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications.Pg No 119.Item No15.49.2	sqm	219.40	127.44	27960.34	219.40	133.62	29316.23	210.76	210.76	133.62	28161.75				28161.75		1154.48	Item operated
43	40	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 120, I.No. 15.53.2 of SR 2018-19).	sqm	176.64	110.16	19458.66	176.64	115.50	20401.92	355.14	220.80	115.50	25502.40	134.34	115.50	15517.00	41019.40	20617.48		Item operated
44	41	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 120, I.No. 15.53.2 of SR 2018-19).																		
		Head Room	sqm	37.92	118.80	4504.90	37.92	124.56	4723.32	68.19	47.40	124.56	5904.14	20.79	124.56	2590.00	8494.14	3770.83		Item operated
45	42	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc .complete as per Specification.Pg No 110.Item No14.51	sqm	15.60	4812.48	75074.69	15.60	5045.89	78715.88	20.72	20.72	5045.89	104563.46				104563.46	25847.57		Item operated

46	43	KSRB 14.9-1: Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m 15 cement concrete using broken granite metal of 20mm and down size, and top layer 15mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications Specification No. KBS 14.4, Pg No 104,Item No 14.13	sqm	160.20	681.48	109173.10	160.20	714.53	114467.71	171.47	171.47	714.53	122520.46				122520.46	8052.75		Item operated
47	44	Providing and fixing for flooring 20mm thick gang saw water cut yadurhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 1200 mm Pg No 112,Item No 14.61.2	sqm	159.51	2215.08	353327.41	159.51	2322.51	370463.57	179.00	179.00	2322.51	415729.29				415729.29	45265.72		Item operated
48	45	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification page no 111 item no 14.56	Mtr	51.40	194.40	9992.16	51.40	203.83	10476.86	60.30	60.30	203.83	12290.95				12290.95	1814.09		Item operated
49	46	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry. curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification, page no 69 item no 10.5.1	sqm	162.24	568.08	92165.30	162.24	595.63	96635.01	165.39	165.39	595.63	98511.25				98511.25	1876.23		Item operated
50	47	KSRB 9-27.1 Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications. Pg No 60,Item No9.80	No.s	1.00	1475.28	1475.28	1.00	1546.83	1546.83	1.00	1.00	1546.83	1546.83				1546.83			Item operated
51	48	KSRB 9-27.1 Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications. Pg No 60,Item No9.80																		
		Head Room	No.s	1.00	1479.60	1479.60	1.00	1551.36	1551.36	1.00	1.00	1551.36	1551.36				1551.36			Item operated

52	49	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames : wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53,Item No/9.11	cum	0.23	94612.32	21760.83	0.23	99201.02	22816.23	0.27	0.27	99201.02	26784.28				26784.28	3968.04		Item operated
53	50	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames : wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53,Item No/9.11																		
		Head Room	cum	0.20	94616.64	18923.33	0.20	99205.55	19841.11	0.07	0.07	99205.55	6964.23				6964.23		12876.88	Item operated
54	51	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour. HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15	sqm	3.78	5099.76	19277.09	3.78	5347.10	20212.04	3.78	3.78	5347.10	20212.04				20212.04			Item operated
55	52	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour. HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15																		
		Head Room	sqm	5.04	5104.10	25724.66	5.04	5351.63	26972.22	2.52	2.52	5351.63	13486.11				13486.11		13486.11	Item operated
56	53	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications. Pg no:121,Item no:15.60.1	sqm	3.68	104.76	385.52	3.68	109.84	404.21	14.18	4.60	109.84	505.00	9.58	109.84	1052.00	1557.00	1152.79		Item operated
57	54	Providing & fixing of 3 Track - 2 Panel Sliding Windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gaskets having isolated drainage and reinforced with Galvanized Iron profile through-out the window Frame. The outer frame having a overall size of 108 mm width X 45 mm height with reinforcement of 1 mm thickness and sash with overall size of 39 mm x 75 mm with GI reinforcement of 2 mm and mesh sash of size 30mm. Windows shall be provided with 5mm plain float glass, standard hardware and single point locking system with touch lock. Wall thickness of frame and sash shall be of 2mm -2.5mm. Maximum possible size -2416mm x 21119 mm	sqm	23.40	5637.60	131919.84	23.40	5911.02	138317.87	26.46	26.46	5911.02	156405.59				156405.59	18087.72		Item operated
59	56	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Pg no:123,Item no:15.74	sqm	46.80	102.60	4801.68	46.80	107.58	5034.74	59.54	58.50	107.58	6293.00	1.04	107.58	111.00	6404.00	1369.26		Item operated

60	57	*Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications. Pg 45 Item no.7.38*	sqm	11.20	6502.68	72830.02	11.20	6818.06	76362.27	20.07	14.00	6818.06	95453.00	6.07	6818.06	41386.00	136839.00	60476.73		Item operated
62	58	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M200-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305	cum	65.00	351.00	22815.00	65.00	368.02	23921.30	57.75	57.75	368.02	21253.16				21253.16		2668.15	Item operated
		INTERNAL WIRING SYSTEM																		Item operated
64	59	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694; and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet**Short point upto 3m**	Point	6.00	200.00	1200.00	6.00	209.70	1258.20	8.00	8.00	209.70	1677.60				1677.60	419.40		Item operated
65	60	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694; and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet. **Medium point above 3m - 6m**	Point	6.00	275.00	1650.00	6.00	288.34	1730.04	8.00	8.00	288.34	2306.72				2306.72	576.68		Item operated
66	61	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary **25mm dia, 2mm thick**	Rm	40.00	53.00	2120.00	40.00	55.57	2222.80	110.00	110.00	55.57	6112.70				6112.70	3889.90		Item operated
67	62	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc. by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.**19/20mm dia, 2mm thick**	Rm	30.00	51.00	1530.00	30.00	53.47	1604.10	90.00	90.00	53.47	4812.30				4812.30	3208.20		Item operated
68	63	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc. by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.**25mm dia, 2mm thick**	Rm	25.00	54.00	1350.00	25.00	56.62	1415.50	70.00	70.00	56.62	3963.40				3963.40	2547.90		Item operated
69	64	Supplying and flush mounting powder coated / galvanizedmetal box suitable for mounting modular switch plates. Thebox should be firmly flushmounted after due groove cuttingin Brick/Stone/C.C wall.**1 - 3 Way**	Each	11.00	95.00	1045.00	11.00	99.61	1095.71	8.00	8.00	99.61	796.88				796.88		298.83	Item operated

70	65	Supplying and flush mounting powder coated / galvanizedmetal box suitable for mounting modular switch plates. Thebox should be firmly flushmounted after due grooveCutting in Brick Stone/C.C wall. 4 - 5 Way	Each	10.00	105.00	1050.00	10.00	110.09	1100.90	8.00	8.00	110.09	880.72				880.72		220.18	Item operated
71	66	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessarycapacity wire as required as per IS 1293 and IS 3654. **6AMP 3/5 and Switch**	No	20.00	132.00	2640.00	20.00	138.40	2768.00	8.00	8.00	138.40	1107.20				1107.20		1660.80	Item operated
72	67	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293	Each	30.00	150.00	4500.00	30.00	157.28	4718.40	8.00	8.00	157.28	1258.24				1258.24		3460.16	Item operated
73	68	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854. **16Amps Combined switch and socket with indication**	No	10.00	194.00	1940.00	10.00	203.41	2034.10	8.00	8.00	203.41	1627.28				1627.28		406.82	Item operated
74	69	Electronic stepped regulator.	No	10.00	150.00	1500.00	10.00	157.28	1572.80	8.00	8.00	157.28	1258.24				1258.24		314.56	Item operated
75	70	Wiring for lighting power circuit using one of FRLS PVCinsulated 1100V grade, multistrand copper wire with lowconductor resistance single core in open or concealedsystem of wiring with specified IS-694 conforming to latestamendments 1.5 sqmm	Rm	20.00	20.05	401.00	20.00	21.02	420.40	150.00	150.00	21.02	3153.00				3153.00	2732.60		Item operated
76	71	Wiring for lighting power circuit using one of FRLS PVCinsulated 1100V grade, multistrand copper wire with lowconductor resistance single core in open or concealedsystem of wiring with specified IS-694 conforming to latestamendments 2.5 sqmm	Rm	10.00	32.00	320.00	10.00	33.55	335.50	120.00	120.00	33.55	4026.00				4026.00	3690.50		Item operated
77	72	Supplying and fixing Metal Fan Box with Round Hook	Each	3.00	85.00	255.00	3.00	89.12	267.36	8.00	8.00	89.12	712.96				712.96	445.60		Item operated
78	73	Supplying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flourscent Tube. 1X4' Tube Light Fitting	Nos	8.00	300.00	2400.00	8.00	314.55	2516.40	8.00	8.00	314.55	2516.40				2516.40			Item operated
79	74	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles, single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. **48" sweep** (1200mm)	Each	5.00	2090.00	10450.00	5.00	2191.37	10956.85	8.00	8.00	2191.37	17530.96				17530.96	6574.11		Item operated
		Grand Total RS.				6159671.71			6458416.91								6130640.84	961855.93	1289682.54	

Percentage of excess comparing to the sanctioned Estimated cost = $\frac{961855.93}{6458416.91}$ x 100 = 14.89

Agency Signature

Assistant Engineer
Ward No-02

Assistant Executive Engineer
Yelahanka Sub Division

Executive Engineer
Yelahanka Division

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ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ